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By: Nancy Ramos

Printed: Nancy Ramos

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Goli et al.

Title: A NOVEL GLUTATHIONE S-TRANSFERASE

Serial No.: To Be Assigned Filing Date: Herewith

Examiner: To Be Assigned Group Art Unit: To Be Assigned

Official Draftsman

Commissioner for Patents
Washington, D.C. 20231

SUBMISSION OF FORMAL DRAWINGS

Sir:

Transmitted herewith are Figures 1A, 1B, 1C, 2A, 2B, 3, 4, 5, 6, 7, 8, 9 as twelve (12) sheets of formal drawings for this application. Each sheet of drawing indicates the identifying indicia suggested in 37 CFR Section 1.84(c) on the reverse side of the drawings.

Applicants believe that no fee is due with this paper. However, if the Commissioner determines that a fee is necessary, the Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No. **09-0108**. **A duplicate copy of this communication is enclosed.**

If there are any questions regarding the above, the Examiner is invited to call the undersigned at 650-855-0555.

Respectfully submitted,
INCYTE GENOMICS, INC.

Date: February 14, 2001

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9	ATG	GCA	GCA	AGG	CCC	AAG	CTC	CAC	TAT	CCC	AAC	GGA	AGA	GGC	CGG	ATG	GAG	TCC
M	A	A	R	P	K	L	H	Y	P	N	G	R	G	R	M	E	S	
	63	72								36					45		54	
V	R	W	V	L	A	A	G	V	E	F	D	E	E	F	L	E		
	117	126								90					99		108	
T	K	E	Q	L	Y	K	L	Q	D	G	N	H	L	F	Q	Q		
	171	180								144					153		162	
V	P	M	V	E	I	D	G	M	K	L	V	Q	T	R	S	I	L	
	225	234								189					198		207	
H	Y	I	A	D	K	H	N	L	F	G	K	N	L	K	E	R	T	
	279	288								243					252		261	
L	I	D	M	Y	V	E	G	T	L	D	L	L	E	L	L	I	M	
	306	297								306					315		324	
	CTG	ATT	GAC	ATG	TAC	GTG	GAG	GGG	ACA	CTG	GAT	CTG	CTG	GAA	CTG	CTT	ATC	ATG

FIGURE 1A

CAT	CCT	TTC	TTA	AAA	CCA	GAT	GAT	CAG	CAA	AAG	GAA	GTG	GTT	AAC	ATG	GCC	CAG
H	P	F	L	K	P	D	D	Q	K	E	V	V	N	M	A	Q	
K	A	I	R	Y	F	P	V	F	E	K	I	L	R	G	H	G	
387	396	405	414	423	432												
AAG	GCT	ATA	ATT	AGA	TAC	TTT	CCT	GTG	TTT	GAA	AAG	ATT	TTA	AGG	GGT	CAC	GGG
K	A	I	I	R	Y	F	P	V	F	E	K	I	L	R	G	H	G
441	450	459	468	477	486												
CAA	AGC	TTT	CTT	GTT	GGT	AAT	CAG	CTG	AGC	CTT	GCA	GAT	GTG	ATT	TGA	CTC	CAA
Q	S	F	L	V	G	N	Q	L	S	L	A	D	V	I	L	L	Q
495	504	513	522	531	540												
ACC	ATT	TTA	GCT	CTA	GAA	GAG	AAA	ATT	CCT	AAT	ATC	CTG	TCT	GCA	TTT	CCT	TTC
T	I	L	A	L	E	E	K	I	P	N	I	L	S	A	F	P	F
549	558	567	576	585	594												
CTC	CAG	GAA	TAC	ACA	GTC	AAA	CTA	AGT	AAA	ATC	CCT	ACA	ATT	AAG	AGA	TTC	CCT
L	Q	E	Y	T	V	K	L	S	N	I	P	T	I	K	R	F	L
603	612	621	630	639	648												
GAA	CCT	GGC	AGC	AAG	AAG	CCT	CCC	CCT	GAT	GAA	ATT	TAT	GTG	AGA	ACC	GTC	
E	E	P	G	S	K	K	K	P	P	P	D	E	I	Y	V	R	T

FIGURE 1B

FIGURE 1C

TAC	AAC	ATC	TTT	AGG	CCA	TAA	AAC	AAC	TCC	ATG	TGT	GAG	TGA	CAG	TGT	GTT	
Y	N	I	F	R	P												
711	720			729					738		747						
CCT	AGA	GAT	GGT	ATT	GTC	TAC	AGT	CAT	GTC	TTA	ATG	GAT	CCC	AGC	TCT	GTC	ATG
765	774			783													
GTG	CTA	TCT	ATG	TAT	TAA	GTT	GGG	TCC	TAA	GTT	GGG	TCT	TTT	GT	3'		

FIGURE 2A

1 M A A R P K L H Y P N G R G R M E S V R W V L A A A G V E F D E E F L E T K E Q H S T
 1 M A E [P K L H Y S N T] R G R M E S I R W L L A A A G V E F E E K F I K S A E D 9825605
 1 M A E [P K L H Y F N A R G R M E S T] R W L L A A A G V E F E E K F I K S A E D 9259141
 1 M A A K P K L Y Y F N G R G R M E S I R W L L A A A G V E F E E F L E T R E Q 9193710

41 L Y K L Q D G N H L L F Q Q V P M V E I D G M K L V Q T R S I L H Y I A D R H N H S T
 41 L D K L R N D G Y L M F Q Q V P M V E I D G M K L V Q T R A I L N Y I A S K Y N 9825605
 41 L D K L R N D G Y L M F Q Q V P M V E I D G M K L V Q T R A I L N Y I A S K Y N 9259141
 41 Y E K M Q K D G H L L F G Q V P L V E I D G M M L T Q T R A I L S Y L A A K Y N 9193710

81 L F G K N L K E R T L I D M Y V E G T L D L L E L L I M H P F L K P D D Q Q K E H S T
 81 L Y G K D I K E K A L I D M Y I E G I A D L G E M I L L P F T Q P E E Q D A K 9825605
 81 L Y G K D I K E R A L I D M Y I E G I A D L G E M I L L P V C P P E E K D A K 9259141
 81 L Y G K D L K E N V R I D M Y A D G T Q D L M M M I A V A P F K T P K E K E S 9193710

121 V V N M A Q [K A I I R Y F P V F E K I L R G H G Q S F L V G N Q L S L A D V J L H S T
 121 L A L I Q E K T K N R Y F P A F E K V L K S H G Q D Y L V G N [K L S R A D I H L 9825605
 121 L A L I K E K I K N R Y F P A F E K V L K S H G Q D Y L V G N [K L S R A D I H L 9259141
 121 Y D L I L S R A K T R Y F P V F E K I L K D H G E A F L V G N Q L S W A D I Q L 9193710

FIGURE 2B

161	L Q T I L A L E E K I P N I L S A F P F [Q] E Y T V K L S N I P T I K R F L E P HEST
161	V E L L Y Y V E E L D S S S L I S S F P L L K A L K T T R I S N L P T V K K F L Q P g925605
161	V E L L Y Y V E E L D S S S L I S S F P L L K A L K T T R I S N L P T V K K F L Q P g9259141
161	L E A I L M V E E L S S A P V I L S D F P L L Q A F K T R I S N I P T I K K F L Q P g93710
201	G S K K K P P P D E I Y V R T V Y N I F R P HEST
201	G S P R K P P M D E K S L E E S R K I F R F g925605
201	G S P R K P P M D E K S L E E A R K I F R F g9259141
201	G S Q R K P P P D G P Y V E V V R I V L K E g9193710

FIGURE 3

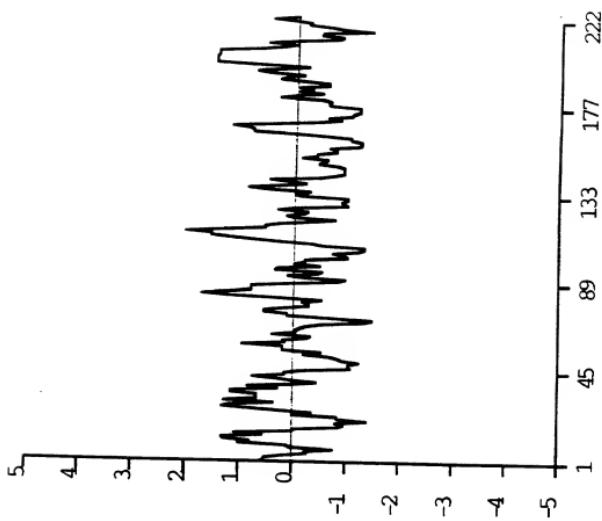


FIGURE 4

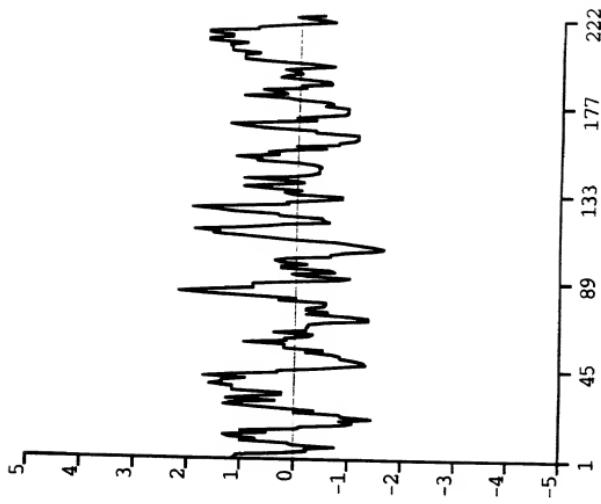
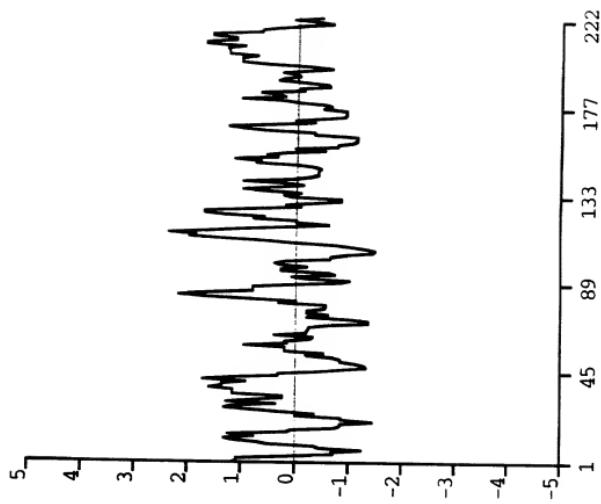


FIGURE 5



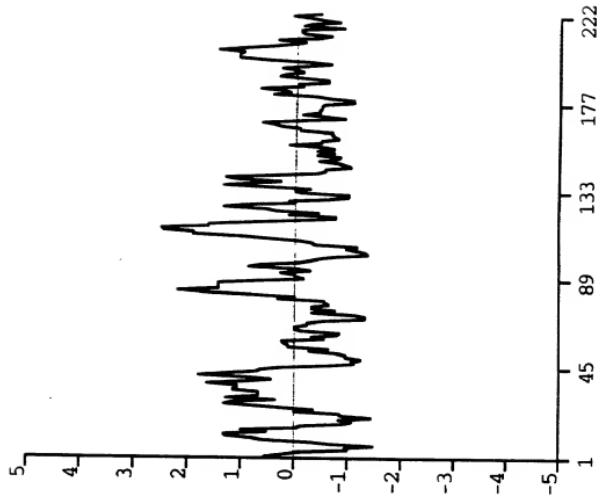


FIGURE 6

FIGURE 7

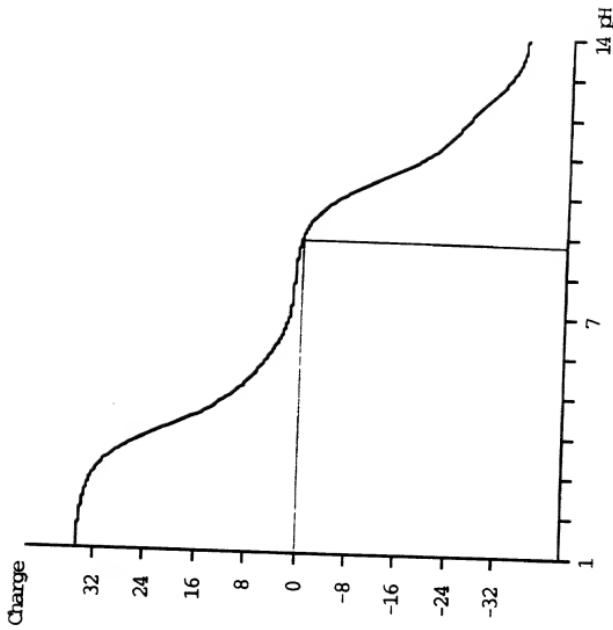


FIGURE 8

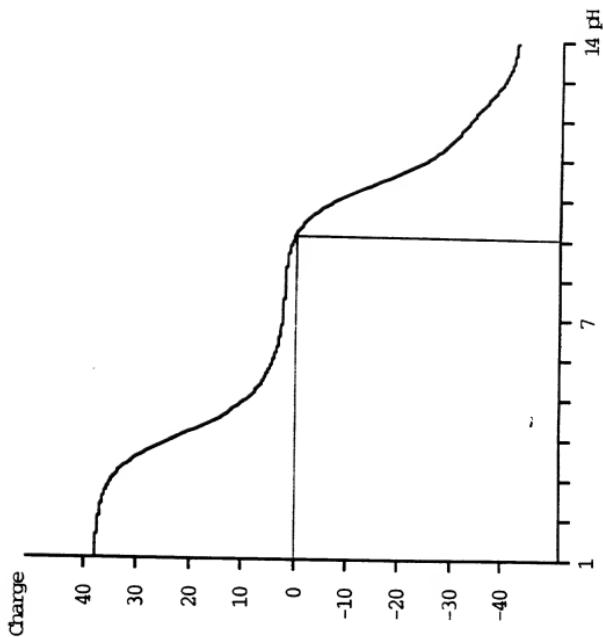


FIGURE 9

